

**Meeting Description:** Michigan Geographic Framework Users Meeting

**Date:** January 14, 1999 **Time:** 10:00 a.m.

**Location:** Lewis Cass Bldg., 6th Floor, North Wing, Dept. of Management and Budget, Director's Conference Room

Scheduled Time			Actual Time		
Start	Stop	Total Hours	Start	Stop	Total Hours
10:00 a.m.	12:00 p.m.	2	10:00 a.m.	11:30 a.m.	1 ½

Rob Surber, MIC, reported corrections to the previous meeting minutes. The next meeting date was noted in the minutes as February 11 and it is actually January 14. Delores Muller, SEMCOG, advised that Wayne County has not completed the conflation cleanup in their process. It is currently in the conflation clean-up stage.

#### I. Geographic Framework Program

##### A. MIC Project Update

###### 1. MALI to GIS Conflation (Phase2) Status

Rob Surber, MIC, distributed a current status map. He reported that the MIC has added production staff and there are a few more counties in progress. There are twelve counties complete and fourteen counties in progress where they don't have all of MALI accounted for on the map (the identity point between MALI and GIS has not been reached.) Ten counties are in progress and have reached identity point. In order to expedite the Phase 2 process, the MIC has been considering a pilot project with the University of Georgia (they have been doing work similar to the Michigan Geographic Framework.) A staff person traveled there to initiate work on the first three of ten counties planned for the pilot project. The MIC is unsure if it is even feasible to do the work this way.

###### 2. County Seaming

Rob Surber, MIC, reported that the MIC continues to work on county seaming and is making progress. This is where they get rid of the duplication of county lines. They hope to have the Tri-County area through Phase 2a by the end of the month and available for seaming.

##### B. SEMCOG Project Update

SEMCOG is not in attendance, but Delores Muller sent an update for Rob to share with the group. Macomb and Oakland Counties are near completion on the conflation cleanup process. All counties are through the conflation process. Wayne and Monroe Counties are in progress in the conflation cleanup. The MIC is working in Washtenaw to determine what procedures need to be in place to finish off SEMCOG's counties with the statewide standards so that all counties will be a comparable product. The MIC is trying to determine how much more work it will be to do Washtenaw at this point.

##### C. Other Framework Initiatives

###### 1. Hydrography / Reach

Rob Surber, MIC, reported that the MIC met with MDEQ's Steve Miller and John Clark to identify some issues and talked about plans of attack.

Steve Miller, MDEQ, stated that he met with MDNR and the U.S. Army Corp of Engineers, who are interested in conflation of hydrography layers and bringing 1:100000 scale to 1:24000 scale maps and working with Reach files that the EPA has maintained. They are looking at the hydrography of the networking of the river systems and also the watershed boundaries that have been delineated. It's been an ongoing process. MDEQ met with the NRCS (Natural Resources Conservation Service,) who has done work at the 14 digit HUC levels. MDEQ has the watershed boundaries and information on the Reaches and will combine that information with what U.S.G.S. (United States Geological Service) and Soil Conservation use. The Corp is interested in regards to a proposal (put together by the Corp and MDNR) to seek funding. They decided that for now, the timing is not good. They are looking at the Macatawa Basin by Holland, there is a lot of work being done there. They are awaiting Ottawa and Allegan counties to be completed and the seaming to be done between those two. They will use that as a demonstration. Mark Coppersmith, U.S.G.S., is interested in using this data as a national demonstration site and for evaluation of some of their conflation tools. Within Michigan, we have agreed to take a comprehensive look at a fairly small watershed, the Macatawa Basin, and get a handle on what all the issues are.

Rob Surber, MIC, stated that Alden Leatherman is also investigating conflation programs that were developed by U.S.G.S. He is looking at comparability and compatibility. Alden has made some progress and is documenting his findings.

Steve Miller, MDEQ, stated that it is a slow progress bringing the agencies together, but when we get done we will have a tool to work toward.

## 2. DOQs (Digital Ortho Quads)

Rob Surber, MIC, distributed a DOQQ Availability map. The MIC has done some work on the quad names and now has a coverage with quad name and quad boundaries that nearly corresponds with what U.S.G.S. publishes on the web. They weren't able to get information from the U.S.G.S. in coverage form that had polygons tied with names. Now there is a way to link the database with what is on the web. Can now geographically identify the ones they need, print out a list, and order directly. The MIC is in the preliminary investigation stage of seeing how to acquire rest of DOQs for the state for framework, since use of DOQs is one way to speed up work on Phase 2. The DOQs for the Upper Peninsula are of interest because there is a lot of leaf-off coverage that is helpful for Phase 2 work and supplements LandScan, which is leaf-on.

Bill Kempisty, U.S. Army Corp of Engineers, reported that he delivered a set of DOQs to the MIC.

Rob Surber, MIC, stated the MIC would definitely use that along shorelines, where there is a lot of growth.

Dave Shinavier, Barry County, stated that the MIC sent him the framework line files for Barry County. The county plotted their lines over top of the framework in a different color to compare. Dave displayed a map for the group. The county's base is from an improved MIRIS base. Most of the differences are things you would expect – additional trailer parks, etc.

Rob Surber, MIC, asked if there is a business process where Dave's office is advised when new streets are built.

Dave Shinavier, Barry County, responded that they are advised because they filter new roads and addresses to 9-1-1. When a new street name is assigned, there is a mailing list of agencies (including utilities and post offices) that are advised. They

talked about adding MIC to the list.

Rob Surber, MIC, suggested that they should revisit that discussion. If it touches the framework, it affects everybody else that uses the framework.

Dave Shinavier, Barry County, it would be optimal if MIC got e-mail with segment coordinates.

Rob Surber, MIC, added at the very least a sketch map. Some problems arise in definitions of what a road is or what was considered a road feature at the time.

Dave Shinavier, Barry County, responded that for them a road is anything having an address.

## II. Michigan State Government Geographic Information Policy Council

### A. A.State Agency Survey Development

Rob Surber, MIC, reported that there is a meeting scheduled for the end of the month for the Michigan State Government Geographic Information Policy Council. They will be discussing a survey that is going to all state agencies. Rob hopes to have a draft survey prepared by that meeting for the policy council to review. It will expand on the National States Geographic Information Council Framework Survey, which focused on high level questions within framework themes (hydro, roads, digital ortho, and digital elevation.) The Resource Holdings Working Group has compiled a list of all the types of things that state government collects in terms of geographic information. Much of this information is in the framework themes, but there is other information like incidents, events, and sites. In addition, the National States Geographic Information Council Framework Survey only asked few questions about scale of data and quality. This survey will go further than that. It will look at things like how often data is updated, how complete is it, etc. Rob is hoping to make the survey simple enough that people will do it, but complete enough that it will mean something. This survey will tie into the statewide clearinghouse effort, but is targeted to state agencies.

## III. MDNR Projects and Activities

Gary Bilow, MDNR, stated that they hired a new manager, Mike Donovan, for the MIRIS unit. Mike will start next week. They are anxious to get this unit up and running again. They have been working on the quarter quarter grid project and the Lower Peninsula is complete and going through QA/QC (quality assurance/quality control.) They left off the coastal counties because they cause problems with the quality control program. They hope to complete by the end of this quarter.

Rob Surber, MIC, asked what sort of things they might find in QA/QC in regular area.

Gary Bilow, MDNR, responded that they have an AML that labels the quarter quarters with the correct designation and there are a lot of irregular sections that don't contain quarter quarters. There are polygons without labels and polygons with two labels. You come across unexplained errors where labels don't make sense. They are doing quality control on the database to be sure that all the fields have reasonable values for a certain range and they are also doing a spatial query on the quarter quarters to make sure that the quarter quarter next to it is appropriate. This is an automated process that goes quickly.

Gary Bilow, MDNR, also reported that they had a conference call with the U.S.G.S. about an innovative partnership to acquire DOQQs from the 1998 NAPP photography. It looks like that project will be accepted as an innovative partnership. The U.S.G.S. has \$500,000 for the project and MDNR will come up with a 1/3 match. They are trying to come up with their part of the money. There is some interest from CUPPAD (Central Upper Peninsula Planning and Development.) Right now MDNR doesn't know which frames from the 1998 photography are accepted by U.S.G.S. The contract with vendor calls for doing things in 100 quad blocks. Last year U.S.G.S. flew Upper

Peninsula and part of the northern Lower Peninsula. The MDNR will be looking first at the areas where there are holes in the coverage and then will consider updates. The MDNR is considering Menominee and Keweenaw County areas in hopes that U.S.G.S. might approve it.

#### IV. MDOT Projects and Activities

Joyce Newell, MDOT, reported that MDOT contracted MSI to do attribution work. MSI will attribute legal systems, jurisdictions, national functional class, and bridge id numbers. Soon they will also look at rail crossing id's.

Rob Surber, MIC, stated that this would go directly on framework. MDOT and MIC are working on a business process that would involve MIC holding their work while MDOT does attribution work and coordinating a schedule so there isn't duplicate work at any point in time. Will be looking at a development plan throughout the calendar to create an open season when people can access framework and a time when it is locked in and not accessible. They will try to consider other departments as they develop the plan so there will be consistency and it won't create extra work.

#### V. MIC Projects and Activities

##### A. NSDI Clearinghouse

Rob Surber, MIC, reported that the MIC received another proposal from IMAGIN on the NSDI clearinghouse and they are reviewing it.

##### B. Statewide Land Database – EIS (Executive Information System)

Rob Surber, MIC, reported that the MIC continues to interview state departments regarding a high level needs analysis and current business practices in terms of land, facilities, sites, and structures. The MIC will begin a prototype of the tri-county area (Clinton, Eaton, and Ingham) for EIS web base application this month. Some time this spring they hope to have it ready for state departments to review and comment on.

##### C. Census 2000 Enhanced Access

Rob Surber, MIC, distributed a Redistricting Quality Control Status map. He reported that the Census 2000 Enhanced Access (Redistricting) project is using current live framework and fixing all MCDs, legislative districts, and precinct boundaries as they are assigned to framework. In addition, they are also fixing shorelines so there is a consistency between all of these and the current version of framework. Many people don't deal with administrative type boundary information, but it is important to have consistent shoreline statewide for framework. They are using MIRIS for the base, but there have been slight inconsistencies that they are working on. They are making sure the topology is correct along the shorelines and river boundaries. They have been using a county template that started with MIRIS. There will be a consistent statewide county template available. The county seaming effort (described earlier) will be almost pure attribution work because the physical lines will all be there. It will be the same line whether it comes from one county or another. Where there were problems with the conflation work along county lines, they will be corrected. Where there are no digital ortho's, there may still be a need to work on shape difference. For consistency of attribution it is all being topologically corrected. There are three or four people working on this project and it is moving along quickly. They are trying to coordinate this project with the shoreline work. There has been a lot of shoreline work done in the Upper Peninsula and want to get that area done before it goes into Phase 2 so they don't have to freeze a lot of work.

Steve Miller, MDEQ, stated that John Clark has done work with MIRIS on the shorelines in southeast Michigan, particularly in Monroe County. It might be helpful to contact him. Everett Root, MIC, stated the MIC will put SEMCOG's framework files into a template and at that time they can also incorporate John's work.

Rob Surber, MIC, stated when determining shoreline and administrative boundaries, particularly with the St. Mary's River, they are going to the center of the river if it is a river defined by what constitutes jurisdiction. But where it becomes a lake there are questions about the boundaries. They are trying to use good judgment where islands are represented as separate entities or internal to a particular jurisdiction. In the Lake Huron area, the islands are separate islands from the coast and Sugar Island is internal to the county from an administrative standpoint.

Dave Shinavier, Barry County, stated that they have spent hundreds of hours on the LUCA program and the maps the U.S. Bureau of the Census sent to Barry County. Dave stated that it was evident that the Bureau had added some of the work that the clerks had done on the address files. The Bureau sent Barry County 18,000 addresses for matching – less than half matched and the county added 6,000 addresses to the file.

Rob Surber, MIC, stated that the MIC should review the changes before they do any reconciliation work. Rob asked if Dave has had a chance to look at any of the work the MIC did differentiating the range breaks in Barry County and documenting where there were differences.

Dave Shinavier, Barry County, stated that he has not.

#### VI. MDEQ Projects and Activities

Steve Miller, MDEQ, reported that MapObjects is up and operational. Katie Jones is writing MapObjects programs. They are sending two people will attend SDE (spatial database engines) training in February then they will look at implementing SDE within their division. When it is up and operational then they will move it up to the department level.

#### VII. SEMCOG Projects and Activities

Rob Surber, MIC, read SEMCOG updates provided by Delores Andaluz. Every five years SEMCOG acquires aerial photography for the seven-county region in Southeast Michigan. They use this for land use and transportation network updates. They are doing an RFP (request for purchase) that is scheduled to be released early this spring and a contract awarded in the fall of '99 for standard black and white panchromatic photography at a scale of 1:24,000. SEMCOG is researching the idea of possibly moving that to digital ortho photography. Any questions regarding SEMCOG Year 2000 aerial photography should be forwarded to Steve Perry or Pam Lazar at (313) 961-4266 or e-mail: perry or lazar @semcog.org

#### VIII. Tri-County Regional Planning Commission Projects and Activities

Melissa Scott, Tri-County Regional Planning Commission, reported that they were a selected as a finalist for the grant described last meeting. If they receive the grant, they will begin a land use update project.

#### IX. MSU Center for Remote Sensing and GIS Projects and Activities

Bill Enslin, MSU Center for Remote Sensing and GIS, reported that they have ordered four more computer systems for the computer lab. This will expand the lab to fourteen student systems that are heavily used by state agencies and ESRI for training. MSU is continuing quality assurance procedures on the MIRIS land use maps that they put together from township coverages to county coverages and converted into ArcInfo coverages. They have finalized the final quality assurance on errors in coding and seaming problems. They hope to be done by the end of February.

Rob Surber, MIC, asked Bill if he is advised by ESRI before they cancel classes because of lack of enrollment. If we knew prior to cancellation because of low enrollment, we may be able to find enough people to fill a class.

Bill Enslin, MSU Center for Remote Sensing and GIS, responded that he would talk to his contact and find out. Normally he gets an e-mail notification that a class has been cancelled. He will see if ESRI will give one last chance before they cancel.

Bill Kempisty, U.S. Army Corp of Engineers, stated that he has people interested in attending if they ever need to fill a class.

Bill Enslin, MSU, stated that he knows that the next two classes are going to be held.

#### X. County/Local Projects and Activities

Jeroen Wagendorp, Allegan County, stated that they have signed a contract with the Corp to fly Allegan County for ortho coverage this spring. Kalamazoo and Ottawa Counties may be part of the same effort and would be acquired during the same flight. It will be in one-foot pixel, ortho photography 1:200 scale. In all likelihood Kalamazoo, Allegan, Ottawa and Kent counties will be covered. Berrien and Cass counties have their own ortho's.

Dave Shinavier, Barry County, stated that Cass County is getting ortho's, but doesn't know if they are available yet. Barry County was appropriated a GPS (global positioning system) for this year. When the snow melts, they will do their own corrections - remonumented section quarters and anything else visible on aerial photos. Their photos were already flown and scanned, so they will have to do a post process. They will tag as reposition points in the file. They will also use for new addresses. Rob Surber, MIC, stated that he would be interested in a description of their process or documentation on their work plan for MIC's file.

Dave Shinavier, Barry County, added that the City of Hastings would be leasing the GPS unit for water and sewer. The county does all the water and sewer for Hastings and Middleville – all utilities are mapped in the Barry County office. When they made the Mylars, they enlarged them to 1:400 and 1:200 blowups with section marks at that scale and enlarged the photography to match and it came out well. Their photography is being registered to be used as a backdrop. The county is involved in readdressing – they are a year into a three-year project. Highways in the county have been renamed. One township of sixteen opted out because they want to use their own vernacular. The remaining townships are incorporating the changes. The county does aggressive gypsy moth mapping. The framework project and addresses has had real application for gypsy moth mapping. They can buffer out spray blocks to determine who's opted to be in and who's out. The number one issue for their county for the year as defined by the board is land use and economic development.

Jeroen Wagendorp, Allegan County, added that the same is true of Allegan County.

#### XI. U.S. Census Bureau Regional Office TIGER Update

Nobody was present to report. Rob Surber, MIC, reported that Wayne and Oakland counties and the Census Bureau want to meet to make sure they don't duplicate efforts with respect to framework, 2000 Census, and local GIS efforts.

#### XII. Federal Projects and Activities

Cathy Keenan, U.S.D.A. / N.R.C.S., reported that ArcView has been installed and they are working on it.

Bill Kempisty, U.S. Army Corp of Engineers, reported that the Corp got their DRGs for the Great Lakes basin last month and are in the process of getting them on-line. They will be made available. They are on-line on his PC now but haven't been renamed yet (named by old U.S.G.S. book.) There is quad map margin information on them that may be useful.

Rob Surber, MIC, stated that there has been some effort to link the database to the seamed DRGs so that you can get the name, contour, etc.

Steve Miller, MDEQ, stated that Dave Clark was going to work on that, but doesn't have a status report at this time.

Bill Kempisty, U.S. Army Corp of Engineers, stated that they are renaming to quad names.

### XIII. Other Issues

#### A. Framework Themer and LandScan View Demonstration

Bill Enslin, MSU Center for Remote Sensing and GIS, demonstrated the Themer and LandScan Programs to the group. The Themer Program is being funded by MDEQ for their Source Water Assessment Program.

### XIV. Next Meeting Date

Thursday, February 11, 1999, 10 a.m. until noon, Lewis Cass Building, 320 S. Walnut, Lansing, MI 48933 - 6th Floor, North Wing, Dept. of Community Health, Director's Conference Room

\*\* If any changes or corrections are to be made to these minutes, please contact the Michigan Information Center at (517) 373-7910